

Midpoint Formula

For #1 -3, find the midpoint of the segment with the given endpoints.

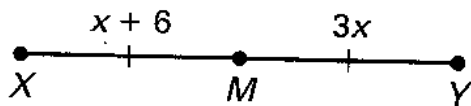
- 1) C(-5, -17) and D(-8, -2) 2) A(-4, 3) and B(-2, -6) 3) H(-5, 5) & J(7, -4)

For #4-6, use the given endpoint R and the midpoint M to find the other endpoint S.

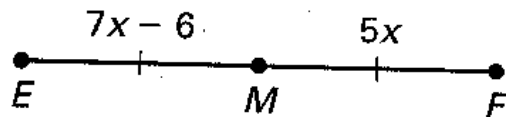
- 4) R(8, 0) and M(4, -5) 5) R(6, 0) and M(0, 2) 6) R(-3, -2) and M(-1, -8)

In each diagram, M is the midpoint of the segment. Find the indicated length.

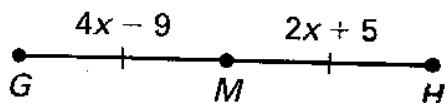
- 7) Find XM



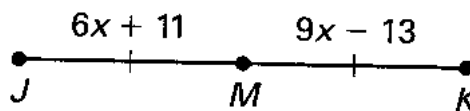
- 8) Find MF



9) Find MH



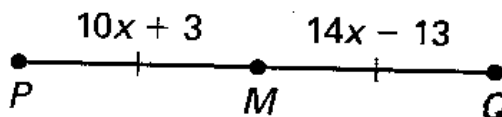
10) Find JK



11) Find LN



12) Find PQ



For #13, the endpoints of two segments are given . Find the length of each segment and determine if the segments are congruent.

13)

\overline{RS} : $R(5, 4), S(0, 4)$

\overline{TU} : $T(-4, -3), U(-1, 1)$